

CALIFORNIA ENERGY COMMISSION

1516 Ninth Street
Sacramento, California 95814

WEBSITES

Main website: www.energy.ca.gov

Children's website: www.energyquest.ca.gov

Consumer Information: www.ConsumerEnergyCenter.org

***Program Opportunity Notice******PON-08-005******Combined Heat and Power and Combined Cooling,
Heating, and Power Grant Solicitation******APPLICATIONS ARE NOW BEING ACCEPTED***

**Public Interest Energy Research (PIER)
Environmentally Preferred Advanced Generation**

Release Date: December 10, 2008

Proposal Due Date: March 19, 2009 at 4:00 p.m.

Purpose of Solicitation

The purpose of this solicitation is to fund research, development, and demonstration (RD&D) projects that will advance the science, technology, and market penetration in California of grid-connected, Combined Heat and Power (CHP) systems (including Combined Cooling, Heating and Power [CCHP] systems), which are closely integrated with prime movers (for example: engines, turbines, and fuel cells).

The PIER Program is releasing this solicitation to support RD&D projects in the research subject area of Environmentally Preferred Advanced Generation. The intent of funding in this area is to improve the performance and advance the market penetration of CHP and CCHP systems in California with the broad objectives of increasing efficiency; reducing cost; reducing emissions (including greenhouse gases); and improving the load factors and operational flexibility of integrated systems used in residential, commercial, and industrial applications for electricity generation, space conditioning, and process heating and/or cooling. The California Energy Commission (Energy Commission) is now requesting proposals in order to select projects for possible funding.

This is a competitive grant solicitation sponsored by the Energy Commission's PIER Program. Applicants are scored and ranked based on scoring criteria. Highest scoring applicants are recommended to receive funding.

Availability of Solicitation Documents and Information

This solicitation and all supporting documents and forms can be found at www.energy.ca.gov/contracts/index.html under "Current Solicitations." Interested parties may also register on the electronic mailing list on this webpage to receive notifications of any changes to this solicitation.

For those parties without internet access, copies of solicitation documents and information can be obtained by contacting:

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California Energy Commission
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In addition, you may request to be added to the mailing notification list to receive changes made to this solicitation.

Funding Information

The estimated total funding available for this solicitation is \$3,800,000 of fiscal year 2008-2009 PIER Electricity funds. The maximum PIER funding to be awarded for any one proposal is \$1,500,000. It is anticipated that three to five projects will be selected for funding, which will be awarded as grants. Match funding is expected and should be appropriate and consistent with the expected level of public versus private benefits accrued from the project.

Eligible Projects

To be eligible for funding, the project must advance the science, technology, and market penetration in California of grid-connected CHP and/or CCHP systems, and the project must address technical and/or economic barriers to the market acceptance of grid-connected CHP and CCHP systems in California.

Areas for potential technological development include but are not limited to the following:

- Reducing capital costs, installation costs, and/or operation and maintenance costs of CHP/CCHP systems.
- Improving CHP/CCHP system electrical and/or thermal utilization efficiency.
- Advancing technologies that enable CHP/CCHP systems to exceed applicable standards for reducing greenhouse gas emissions.
- Matching CHP/CCHP system electric and thermal output to facility needs, which may vary over time, so that high CHP/CCHP system efficiency can be maintained continuously.

- Improving load following capability and operational flexibility.
- Improving physical, thermal, and electrical integration among CHP/CCHP system components.
- Improving the efficiency of thermally activated cooling systems that are part of integrated CCHP systems.
- Adapting CHP/CCHP systems to use otherwise wasted fuels and flare gases as system fuels.
- Advancing district heating and cooling system applications.

Eligible Applicants

This is an open solicitation and all types of organizations are eligible to apply. Proposals submitted under this solicitation may request funding only for new projects or new tasks associated with existing projects. Funds may not be used to augment activities currently funded under existing PIER agreements.

California business entities as well as non-California business entities conducting intrastate business in California are required to register and be in good standing with the California Secretary of State to enter into an Agreement with the Energy Commission. If not currently registered with the California Secretary of State, Applicants are encouraged to contact the Secretary of State's Office as soon as possible to avoid potential delays in beginning the proposed project (should the proposal be successful). For more information, contact the Secretary of State's Office via their website at www.sos.ca.gov.